

Advanced Research Techniques

Certification Curriculum

Summary Certification Overview

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2	Knowing the search terms	8	Could the research be biased?
3	Which sources do I use?	9	Correlation and Causation
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Advanced Research Techniques

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2	Skills Lab™: What is your goal
3	Introduction to research techniques
4	Skills Lab™: What's your scientific question?
5	Understanding keywords and search terms
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7	Where do I conduct my search?
8	Researching with PubMed
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Advanced Research Techniques

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31	The good and bad of Wikipedia
32	Skills Lab™: Auditing Wikipedia pages
33	Dos, don'ts, and must dos

0. Fundamentals

Unit	Here's what you'll learn	Extra support material
<p>0.1 Taking your career a step further</p> <p>0.2 Skills Lab™: What's your goal?</p>	<ul style="list-style-type: none"> ▪ An exciting scientific journey ahead ▪ Your specialised course ▪ Contradictions and harmful advice ▪ Trusting the news? ▪ The only acceptable source ▪ The scope of training ▪ From knowledge to practise ▪ More about your course materials ▪ Expert training 	<ul style="list-style-type: none"> ▪ My Personal Notes worksheet ▪ Skills Lab™: Personal Strategy Questionnaire (What's your goal?)

1. My research aims

Unit	Here's what you'll learn	Extra support material
<p>1.1 Introduction to research techniques</p> <p>1.2 Skills Lab™: What's your scientific question?</p>	<ul style="list-style-type: none"> ▪ Why do your own research? ▪ What is a literature review? ▪ Why carry out a literature review? ▪ Hourglass research model ▪ More than 1 review? ▪ Not just for scientists ▪ The purpose of this research training ▪ The first step <ul style="list-style-type: none"> ▪ From general to specific ▪ What is my research question? ▪ Research question vs hypothesis ▪ What's my question? ▪ New beginnings ▪ The 5 steps involved ▪ Your next steps ▪ What do you want to find out? ▪ Important factors to consider 	<ul style="list-style-type: none"> ▪ Research Question Generator™ ▪ Test Your Knowledge Exercises

1. My research aims

Unit	Here's what you'll learn	Extra support material
<p>1.1 Introduction to research techniques</p> <p>1.2 Skills Lab™: What's your scientific question?</p>	<ul style="list-style-type: none"> ▪ Additional questions to answer ▪ An example research question ▪ Research Question Generator™ ▪ Step 1 done! 	<ul style="list-style-type: none"> ▪ Research Question Generator™ ▪ Test Your Knowledge Exercises

2. Knowing the search terms

Unit	Here's what you'll learn	Extra support material
<p>2.1 Understanding keywords and search terms</p> <p>2.2 Skills Lab™: Identifying my search terms</p>	<ul style="list-style-type: none"> ▪ Thinking about search terms ▪ Computer mind readers? ▪ Brainstorming with a dictionary ▪ UK vs US spellings ▪ Establishing your search terms ▪ To include? Or not to include? ▪ From research question to keywords ▪ Organising keywords ▪ Listing keywords to include ▪ Listing keywords to exclude ▪ Creating lists and checking it twice ▪ Truncations and wildcards ▪ Boolean connectors ▪ Using Boolean connections ▪ Same meaning as everyday speech ▪ Our example search ▪ Other inclusions and exclusions 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises

2. Knowing the search terms

Unit	Here's what you'll learn	Extra support material
<p>2.1 Understanding keywords and search terms</p> <p>2.2 Skills Lab™: Identifying my search terms</p>	<ul style="list-style-type: none"> ▪ What are your keywords? ▪ Brainstorming keywords ▪ Using Boolean connectors ▪ Keyword Brainstorming Board™ ▪ Time to get the papers? 	<ul style="list-style-type: none"> ▪ Keyword Brainstorming Board™ ▪ Test Your Knowledge Exercises

3. Which sources do I use?

Unit	Here's what you'll learn	Extra support material
3.1 Where do I conduct my search?	<ul style="list-style-type: none"> ▪ Where do find scientific papers? ▪ Search engine vs database ▪ The databases behind the engines 	<ul style="list-style-type: none"> ▪ Searching in PubMed video tutorial
3.2 Researching with PubMed	<ul style="list-style-type: none"> ▪ Not created equal ▪ Specific databases ▪ Choosing your database 	<ul style="list-style-type: none"> ▪ Investigating with Google Scholar video tutorial
3.3 Searching with ScienceDirect	<ul style="list-style-type: none"> ▪ Free or paid? ▪ More than 1? ▪ Doing your own research 	<ul style="list-style-type: none"> ▪ Scientific Search Workbook™
3.4 Investigating with Google Scholar	<ul style="list-style-type: none"> ▪ Who is MEDLINE? ▪ Basic PubMed search ▪ Starting an advanced search ▪ Separating Booleans 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
3.5 Skills Lab™: Conducting a search	<ul style="list-style-type: none"> ▪ PubMed search result example ▪ Filtering your results ▪ Why look at the abstract? ▪ PubMed abstract example 	

3. Which sources do I use?

Unit	Here's what you'll learn	Extra support material
3.1 Where do I conduct my search?	<ul style="list-style-type: none"> ▪ 2 more search engines to go... ▪ What is ScienceDirect? ▪ Integrating journals and books 	<ul style="list-style-type: none"> ▪ Searching in PubMed video tutorial
3.2 Researching with PubMed	<ul style="list-style-type: none"> ▪ A quick, basic search ▪ Filtering by date ▪ Filtering by publication date 	<ul style="list-style-type: none"> ▪ Investigating with Google Scholar video tutorial
3.3 Searching with ScienceDirect	<ul style="list-style-type: none"> ▪ Further filtering? ▪ Filtering results ▪ Finding something already in mind 	<ul style="list-style-type: none"> ▪ Scientific Search Workbook™
3.4 Investigating with Google Scholar	<ul style="list-style-type: none"> ▪ Advanced search ▪ Conducting an advanced search ▪ Full access? ▪ Two down! 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
3.5 Skills Lab™: Conducting a search	<ul style="list-style-type: none"> ▪ About Google Scholar ▪ Potential caveats ▪ A basic Google Scholar search ▪ Basic search results 	

3. Which sources do I use?

Unit	Here's what you'll learn	Extra support material
3.1 Where do I conduct my search?	<ul style="list-style-type: none"> ▪ Most recent papers ▪ Need a more detailed search? ▪ Creating an advanced search 	<ul style="list-style-type: none"> ▪ Searching in PubMed video tutorial
3.2 Researching with PubMed	<ul style="list-style-type: none"> ▪ Putting it into practice ▪ Your 2 search engines ▪ Tips for your search 	<ul style="list-style-type: none"> ▪ Investigating with Google Scholar video tutorial
3.3 Searching with ScienceDirect	<ul style="list-style-type: none"> ▪ Scientific Search Workbook™ ▪ Continue practising ▪ Same or different? 	<ul style="list-style-type: none"> ▪ Scientific Search Workbook™
3.4 Investigating with Google Scholar		<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
3.5 Skills Lab™: Conducting a search		

4. Too many or too few papers?

Unit	Here's what you'll learn	Extra support material
<p>4.1 Refining search results</p> <p>4.2 Skills Lab™: Narrowing down results</p>	<ul style="list-style-type: none"> ▪ 10,000 results? ▪ Approaching that magic number ▪ The magic number: from 100 to 350 ▪ Fine-tuning your search ▪ Choosing relevant publications ▪ Finding the relevant texts ▪ Have access to the full text? ▪ The never-ending search ▪ Your key takeaways ▪ Time to refine your own search? ▪ Reaching the magic number ▪ Refining My Search Guide™ ▪ A crucially important skill? 	<ul style="list-style-type: none"> ▪ Refining search results video tutorial ▪ Refining My Search Guide™ ▪ Test Your Knowledge Exercises

5. Researching on a budget

Unit	Here's what you'll learn	Extra support material
<p>5.1 Accessing the full texts for free</p> <p>5.2 Skills Lab™: How to access free papers</p>	<ul style="list-style-type: none"> ▪ £40 per paper? ▪ Open access journals ▪ Increasing open access articles ▪ Free access journals? ▪ Don't we 'get what we pay for'? ▪ Culture shift ▪ Science for everyone ▪ What am I missing? ▪ This filter might help... ▪ Cutting just one corner ▪ Second best ▪ Use you own judgement ▪ Two birds with one stone ▪ How different will the answer be? ▪ Let's compensate ▪ What aren't they telling you? ▪ Can't find the free paper? 	<ul style="list-style-type: none"> ▪ Accessing Free Full Texts in PubMed video tutorial ▪ Finding Free Papers Guide™ ▪ Test Your Knowledge Exercises

5. Researching on a budget

Unit	Here's what you'll learn	Extra support material
<p>5.1 Accessing the full texts for free</p> <p>5.2 Skills Lab™: How to access free papers</p>	<ul style="list-style-type: none"> ▪ The perks of being a Pro ▪ Tools for life ▪ Let's take action! ▪ What's coming up? ▪ Finding and downloading ▪ Finding Free Papers Guide™ ▪ Online or download? ▪ Reading and critiquing? 	<ul style="list-style-type: none"> ▪ Accessing Free Full Texts in PubMed video tutorial ▪ Finding Free Papers Guide™ ▪ Test Your Knowledge Exercises

6. Reading a paper

Unit	Here's what you'll learn	Extra support material
<p>6.1 How to read a scientific paper</p> <p>6.2 What does the abstract and introduction teach us?</p> <p>6.3 Why know the experimental set up?</p> <p>6.4 Examining epidemiological evidence</p> <p>6.5 Seeing the data with an unbiased eye</p>	<ul style="list-style-type: none"> ▪ I've got my research – now what? ▪ 3 key reasons to go the source ▪ Original research vs reviews ▪ The study of studies ▪ Levels of evidence ▪ Conducting your own reviews ▪ Let's focus on original research ▪ Jargon alert ▪ 6 main paper sections ▪ The start of a paper ▪ How it relates to a research trial ▪ Uncovering the parts of a paper ▪ First 2 paper parts ▪ Setting the scene ▪ The point of the abstract ▪ Did you know? ▪ How long is short? 	<ul style="list-style-type: none"> ▪ Reading a Scientific Paper video tutorial ▪ Test Your Knowledge Exercises

6. Reading a paper

Unit	Here's what you'll learn	Extra support material
<p>6.1 How to read a scientific paper</p> <p>6.2 What does the abstract and introduction teach us?</p> <p>6.3 Why know the experimental set up?</p> <p>6.4 Examining epidemiological evidence</p> <p>6.5 Seeing the data with an unbiased eye</p>	<ul style="list-style-type: none"> ▪ Graphical abstract ▪ Graphical abstract examples ▪ The evolution of the abstract ▪ Keywords? ▪ Why read the full article? ▪ A screening tool ▪ Let's get down to business ▪ How do scientists know what to study? ▪ An extended introduction? ▪ A scientific controversy? ▪ Methods time! ▪ "Methodology": what to expect ▪ Did you know? ▪ An important distinction ▪ Experimental studies ▪ Analytic studies organisation ▪ Correlation vs causation 	<ul style="list-style-type: none"> ▪ Reading a Scientific Paper video tutorial ▪ Test Your Knowledge Exercises

6. Reading a paper

Unit	Here's what you'll learn	Extra support material
<p>6.1 How to read a scientific paper</p> <p>6.2 What does the abstract and introduction teach us?</p> <p>6.3 Why know the experimental set up?</p> <p>6.4 Examining epidemiological evidence</p> <p>6.5 Seeing the data with an unbiased eye</p>	<ul style="list-style-type: none"> ▪ Observational vs experimental ▪ Cross-sectional studies ▪ Cross-sectional studies: pros and cons ▪ Cohort studies ▪ Prospective cohorts: pros and cons ▪ Prospective Cohort Studies ▪ Retrospective cohorts: pros and cons ▪ Retrospective Cohort Studies ▪ Case-control studies ▪ Case Control Studies ▪ Randomised controlled trials ▪ Blissfully unaware ▪ Randomised controlled: pros and cons ▪ Randomised Control Studies ▪ Other experimental studies ▪ Non-randomised Studies ▪ Why non-randomised 	<ul style="list-style-type: none"> ▪ Reading a Scientific Paper video tutorial ▪ Test Your Knowledge Exercises

6. Reading a paper

Unit	Here's what you'll learn	Extra support material
<p>6.1 How to read a scientific paper</p> <p>6.2 What does the abstract and introduction teach us?</p> <p>6.3 Why know the experimental set up?</p> <p>6.4 Examining epidemiological evidence</p> <p>6.5 Seeing the data with an unbiased eye</p>	<ul style="list-style-type: none"> ▪ Uncontrolled Cohort Studies ▪ Why uncontrolled? ▪ Diving even deeper ▪ Nutrition-related scientific papers ▪ Epidemiological studies ▪ Is this the cause? ▪ Preventing Alzheimer's Disease? ▪ The 2 main types ▪ Case-control study ▪ Prospective cohort study ▪ Does red meat cause cancer? ▪ Association or link? ▪ Not to be skipped ▪ Results: what to expect ▪ A higher power ▪ What are "significant" findings? ▪ Significant or not? 	<ul style="list-style-type: none"> ▪ Reading a Scientific Paper video tutorial ▪ Test Your Knowledge Exercises

6. Reading a paper

Unit	Here's what you'll learn	Extra support material
<p>6.1 How to read a scientific paper</p> <p>6.2 What does the abstract and introduction teach us?</p> <p>6.3 Why know the experimental set up?</p> <p>6.4 Examining epidemiological evidence</p> <p>6.5 Seeing the data with an unbiased eye</p>	<ul style="list-style-type: none"> ▪ Who provides the therapy? ▪ Bringing it all together ▪ What else might be discussed? ▪ Your key takeaways ▪ What's coming up? 	<ul style="list-style-type: none"> ▪ Reading a Scientific Paper video tutorial ▪ Test Your Knowledge Exercises

7. Critiquing papers

Unit	Here's what you'll learn	Extra support material
7.1 Critiquing scientific papers	<ul style="list-style-type: none"> ▪ Are all studies of the same quality? ▪ Separating the wheat from the chaff ▪ Who are you to say? 	<ul style="list-style-type: none"> ▪ Critiquing a Paper Workbook™
7.2 Taking a critical eye to the study design	<ul style="list-style-type: none"> ▪ Ranking by impact factor ▪ Don't lower your standards ▪ The impact factor formula ▪ Independent impact evaluation 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
7.3 Going direct to the results	<ul style="list-style-type: none"> ▪ Put things into perspective ▪ Not all science is published ▪ One size doesn't fit all 	
7.4 Analysing the analysis	<ul style="list-style-type: none"> ▪ Ignorance is bliss ▪ Types of blinding ▪ Volunteers needed 	
7.5 Skills Lab™: Critiquing a paper	<ul style="list-style-type: none"> ▪ To recruit or not to recruit? ▪ Confounding factors ▪ Behind the scenes ▪ Can you control for confounders? 	

7. Critiquing papers

Unit	Here's what you'll learn	Extra support material
7.1 Critiquing scientific papers	<ul style="list-style-type: none"> ▪ Matching: an example ▪ Independent risk factors? ▪ Table of characteristics example 	<ul style="list-style-type: none"> ▪ Critiquing a Paper Workbook™
7.2 Taking a critical eye to the study design	<ul style="list-style-type: none"> ▪ Judging the strength of a study ▪ Data collection ▪ Study duration ▪ What's the risk? 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
7.3 Going direct to the results	<ul style="list-style-type: none"> ▪ Absolute vs relative risk ▪ Let's look at an example ▪ Halved and doubled 	
7.4 Analysing the analysis	<ul style="list-style-type: none"> ▪ Just in case scenario ▪ Too many drop outs? ▪ Could the author be biased? 	
7.5 Skills Lab™: Critiquing a paper	<ul style="list-style-type: none"> ▪ Competing interests ▪ A conflict of interest? ▪ Are there study limitations? ▪ Correlation doesn't equal causation 	

7. Critiquing papers

Unit	Here's what you'll learn	Extra support material
<p>7.1 Critiquing scientific papers</p> <p>7.2 Taking a critical eye to the study design</p> <p>7.3 Going direct to the results</p> <p>7.4 Analysing the analysis</p> <p>7.5 Skills Lab™: Critiquing a paper</p>	<ul style="list-style-type: none"> ▪ We're all unique individuals ▪ We all wear different genes ▪ Question the reliability of research ▪ Critiquing a paper ▪ One page at a time ▪ Critiquing a Paper Workbook™ ▪ A strong foundation ▪ Looking at your own papers 	<ul style="list-style-type: none"> ▪ Critiquing a Paper Workbook™ ▪ Test Your Knowledge Exercises

8. Could the research be biased?

Unit	Here's what you'll learn	Extra support material
<p>8.1 Avoiding confirmation bias</p>	<ul style="list-style-type: none"> ▪ The long version ▪ Your honour ▪ You're wrong and I'll prove it... ▪ Object of science ▪ According to this study, I'm impartial ▪ Asking the right question ▪ All in your head ▪ While we're here... ▪ Zeroing In ▪ Bias Remorse ▪ Ask yourself this ▪ A few good rules ▪ Checking for confirmation bias ▪ Confirmation Bias Check™ ▪ One last thing... 	<ul style="list-style-type: none"> ▪ Confirmation Bias Check™ ▪ Test Your Knowledge Exercises

9. Correlation and Causation

Unit	Here's what you'll learn	Extra support material
<p>9.1 Looking beyond the numbers</p>	<ul style="list-style-type: none"> ▪ Daunting world of statistics ▪ Not just a number ▪ What are statistics? ▪ Dat latin plural ▪ Prove it ▪ Chilly weather ▪ Are YOU wearing a scarf? ▪ Trendy scarves ▪ Up or down ▪ Not so fast! ▪ But what if... ▪ The datum of the matter ▪ Controlled scarf studies ▪ Who cares about scarves? ▪ Correlation confirmation ▪ It's all connected ▪ We can't all be average 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises

9. Correlation and Causation

Unit	Here's what you'll learn	Extra support material
9.1 Looking beyond the numbers	<ul style="list-style-type: none">▪ Don't smoke up, Johnny▪ Connected by coincidence?▪ Spurious correlations▪ Say it with me...▪ The hype behind the headlines	<ul style="list-style-type: none">▪ Test Your Knowledge Exercises

10. The science behind the headlines

Unit	Here's what you'll learn	Extra support material
10.1 Debunking the Headlines	<ul style="list-style-type: none"> ▪ Read between the lines ▪ What's the problem? ▪ Why bad science is important 	<ul style="list-style-type: none"> ▪ Debunking News Workbook™ which includes the Article Checklist™
10.2 Cutting through the misinformation	<ul style="list-style-type: none"> ▪ News vs science ▪ Context is everything ▪ Whatever it takes ▪ “Where's the research?” 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
10.3 Skills Lab™: Analysing a news article	<ul style="list-style-type: none"> ▪ Over-generalisation ▪ “Have they over-generalised?” ▪ Anecdotal evidence ▪ A sample of one ▪ The power of suggestion ▪ Like apples and oranges ▪ Sharks vs cows ▪ False equivalence ▪ Risky business ▪ “Have they used the right risk?” 	

10. The science behind the headlines

Unit	Here's what you'll learn	Extra support material
10.1 Debunking the Headlines	<ul style="list-style-type: none"> ▪ Stretching the truth ▪ Correlation is not causation ▪ Bigger is better 	<ul style="list-style-type: none"> ▪ Debunking News Workbook™ which includes the Article Checklist™
10.2 Cutting through the misinformation	<ul style="list-style-type: none"> ▪ Small, under-powered trials ▪ Cherry-picking ▪ “Cherry-picked” data ▪ Is there any science there? 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises
10.3 Skills Lab™: Analysing a news article	<ul style="list-style-type: none"> ▪ Beyond your control ▪ Misleading headlines ▪ A day in the life of a reporter ▪ Let's write a headline... ▪ We don't eat single nutrients ▪ Seeing the bigger picture ▪ Food synergy ▪ What's the bigger picture? ▪ News checker guide ▪ Your key takeaways 	

10. The science behind the headlines

Unit	Here's what you'll learn	Extra support material
<p>10.1 Debunking the Headlines</p> <p>10.2 Cutting through the misinformation</p> <p>10.3 Skills Lab™: Analysing a news article</p>	<ul style="list-style-type: none"> ▪ Putting your learning into action ▪ Separating fact from opinion ▪ 4-hands on parts ▪ Debunking News Workbook™ which includes the Article Checklist™ ▪ Ideally go to the scientific paper 	<ul style="list-style-type: none"> ▪ Debunking News Workbook™ which includes the Article Checklist™ ▪ Test Your Knowledge Exercises

11. Wikipedia

Unit	Here's what you'll learn	Extra support material
<p>11.1 The good and bad of Wikipedia</p> <p>11.2 Skills Lab™: Auditing Wikipedia pages</p>	<ul style="list-style-type: none"> ▪ Not a real research tool? ▪ Can it be valuable? ▪ Then what is it? ▪ It's a big world after all ▪ All articles aren't created equal ▪ Fake science news? ▪ I get that reference! ▪ But don't take their word for it ▪ Check their working ▪ No substitute ▪ Turn, turn, turn ▪ Bigger is sometimes better ▪ On the agenda ▪ Ask yourself this... ▪ What is it good for? ▪ Wiki Research Pro ▪ Going to the source 	<ul style="list-style-type: none"> ▪ Test Your Knowledge Exercises

11. Wikipedia

Unit	Here's what you'll learn	Extra support material
<p>11.1 The good and bad of Wikipedia</p> <p>11.2 Skills Lab™: Auditing Wikipedia pages</p>	<ul style="list-style-type: none">▪ Choosing the article▪ Wikipedia Audit™ which includes the Wikipedia Checklist™▪ The tools are in your hands	<ul style="list-style-type: none">▪ Wikipedia Audit™ which includes the Wikipedia Checklist™▪ Test Your Knowledge Exercises

12. Dos and Don'ts

Unit	Here's what you'll learn	Extra support material
12.1 Dos, don'ts, and must dos	<ul style="list-style-type: none">▪ Understanding your role▪ What you CAN and CAN'T do▪ What you MUST do▪ The importance of medical advice	<ul style="list-style-type: none">▪ Test Your Knowledge Exercises



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