

| PLANT / PROCESS NAME | CODE CRACKING | | | A | SSESSMENT DATE | Residual Risk Rating (L,M,H,VH) | | |
|---|--|---|-----------------------|---|---|--|--|--|
| PLANT NOTES (IF REQUIRED) | Project 9: Code Cr | acking: Who Murdered the Somerton Man? ₋ucy Griffith, Peter Varsos | | | 22/03/2013 | | | |
| | CAMPUS | Building | SCHOOL | | ROOM OR AREA | REVIEW DATE (FIVE YEARS FROM ASSESSMENT DATE) | | |
| | | | | | | | | |
| | BRAND/MAKE | MODEL | SERIAL NUMBER | | ASSET NUMBER IS THERE / WILL THERE BE A SOP LINKED TO THIS RISK A | | | |
| | | | | | Yes No | | | |
| SPECIAL CONDITIONS REQUIRED | IF Y, SPECIFY THE CONDITIONS AND EXPLAIN HOW THEY ARE IMPLEMENTED. | | | | PHOTOGRAPH | | | |
| (check with your HSO if unsure) | If no process e | exists, add an action item in | this Risk Assessment. | | | | | |
| Plant Registration? | | | | | | | | |
| Yes ⊠No | | | | | | | | |
| Induction? | | | | | | | | |
| ⊡Yes ⊠No | | | | | | | | |
| Licence / Trade certificate? | | | | | | | | |
| □Yes ⊠No | | | | | (size t | he photo so this page doesn't flow over two pages) | | |
| Other competency? | | | | | | | | |
| □Yes ⊠No | | | | | | | | |
| MAINTENANCE PROGRAM (THIS COULD BE A SEPARATE PROGRAM OR A LIST OF PRE-USE CHECKS ON A SOP) | | | | | | | | |
| | reu maintenance program. If h | one yet exists, aut an action it | | | | | | |

Assessment Team / Subject Matter Expert Endorsement

A 'Subject Matter Expert' is someone familiar with the use and hazards of the plant/process. They must endorse the Risk Assessment as accurate and relevant to the plant/process. May be part of the assessment team.

| SCHOOL / AREA | NAME | | Position | | SUBJECT MATTER EXPERT? |
|---|--------------|---|---------------------------|---------------------------------------|--------------------------|
| Electrical And Electronic Engineering | Derek Abbott | | Professor | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Receiving HSO use only | | If Residual Risk H or VH | I, approval received from | If actions inclu | de training, TNA updated |
| All fields completed Endorsed by a subject matter expert | | relevant authority | | Document stored in location stated on | |
| Actions entered into RMSS RA action matches flowchart outcome | | If Residual Risk H or VH, Hazard Register updated | | your Document Register | |
| | | | | | |

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Risk Assessment Toolkit

The tools on this page will help you complete your Risk Assessment

What Controls Are Required?

Hierarchy of Controls

For each hazard, work through this list from top to bottom until you come to an option you can use to control the hazard.

| Option | Examples | | |
|---------------------|---|--|--|
| Elimination (EL) | Decommissioning/disposal of the plant. | | |
| Substitution (SLIP) | Using alternative plant/process which meets the legislative | | |
| Substitution (SOB) | requirements. | | |
| Isolation (IS) | E.g. enclosing the plant in a containment vessel to protect users | | |
| | Installing: guarding (e.g. Adjustable, control, flexible); an | | |
| Engineering (ENI) | interlocking device; a limiting device (i.e. Prevents from | | |
| Engineering (EN) | exceeding design limits); a mechanical restraining device (e.g. | | |
| | Wedge, strut); a protective structure; a switching device | | |
| Administration | Use of danger / out of service tags; write a SOP; training and | | |
| (AD) | supervision; obtaining licenses and permits; | | |
| Personal Protective | Providing operators with appropriate safety equipment e.g. eye | | |
| Equipment (PPE) | and ear protection, safety boots, helmets, gloves, mask etc. | | |

Due Date

Uncontrolled Risk Action Timelines

Use this table to determine the Due Date for each action item.

| Risk | Action |
|-----------|---|
| Very High | Immediate action required. Cease the activity immediately and implement short term controls. Notify Manager |
| High | Implement short term safety controls immediately. Notify Manager |
| Medium | Short term safety controls implemented to minimise risk of injury. Corrective Actions within one month. |
| Low | Corrective Actions within three months (if possible). |

Risk - Uncontrolled and Residual

'Uncontrolled Risk' is the risk of the hazard **without** control measures in place. 'Residual Risk' is the risk of the hazard **with** control measures in place. Follow steps 1-3 below for each hazard to determine its Risk Rating.

1. Likelihood Table

How likely is it that the hazard will occur?

| Likelihood | Description |
|----------------|---|
| Almost Certain | Incident will probably occur at some time (0 – 1 month) |
| Likely | Incident could occur at some time (1 month – 1 year) |
| Slight | Incident is possible to occur (1 year – 2 years) |
| Unlikely | Incident is possible, but unlikely to occur (2 years – 5 years) |
| Rare | Cannot imagine that this could occur (over 5 years) |

2. Consequences Table

What is the **most likely** level of consequence if the hazard were to occur? (I.e. not necessarily the worst consequence that could occur under improbable circumstances).

| Consequences | Description |
|--------------|---|
| Severe | Injury resulting in death or permanent incapacity |
| Major | Injury requiring extensive medical treatment and/or |
| | hospitalization |
| Moderate | Medical Treatment injury needs formal medical treatment |
| Minor | Likely to affect employee the next day. |
| Negligible | Effects unlikely to last until the next day. |

3. Risk Calculator

Plot the likelihood and consequences for each hazard to determine its Risk Rating.

| Likelihaad | | Consequences | | | | | | |
|----------------|------------|--------------|-----------|-----------|-----------|--|--|--|
| Likeimoou | Negligible | Minor | Moderate | Major | Severe | | | |
| Almost Certain | Medium | High | Very High | Very High | Very High | | | |
| Likely | Medium | Medium | High | VeryHigh | Very High | | | |
| Slight | Low | Medium | High | High | Very High | | | |
| Unlikely | Low | Low | Medium | Medium | High | | | |
| Rare | Low | Low | Low | Medium | Medium | | | |

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Instructions

- 1. To change the value of a checkbox in Microsoft Word, double-click the box and change the 'Default Value'.
- 2. Review each hazard question in the Hazard Records over the next few pages and answer the questions in the yellow box.
- 3. Follow the 'Risk Assessment Action Flowchart' on the last page to determine what action needs to occur as a result of this Risk Assessment.

Pre-Controlled Hazards

List here any hazards (and their controls measures) which you have already controlled (see item 2 above). E.g. "noise not a hazard as SOP requires earmuffs to be worn"

Within University computer labs OH&S hazards are already assessed and managed as per the University OH&S policy.

Hazard Records

*: Items marked with a * have explanatory notes in the Risk Assessment Toolkit (page 2).

Can anyone be: Caught between moving or rotating parts of the plant? E.g. entrapment, pinch points, crush zones

| N (GO TO NEXT RECORD) | How could this | RISK * | LIKELIHOOD | CONSEQUENCE | RATING |
|---|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\Box \mathbf{Y} (\text{COMPLETE}) \rightarrow \rightarrow$ | ARE REQUIRED? * | RESPONSIBLE I | PERSON * | DUE DATI | * |
| | | | | | |

Could injury occur through: Contact with stationary object: E.g. knock hand on wall when using plant, run into plant etc

| N (GO TO NEXT RECORD) | How could this | RISK * | LIKELIHOOD | CONSEQUENCE | RATING |
|--|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\Box \mathbf{Y} (COMPLETE) \rightarrow \rightarrow$ | ARE REQUIRED? * | RESPONSIBLE I | Person * | DUE DAT | E * |
| | L | | | | |

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Could injury occur through: Contact with sharp object: E.g. knife, sharp / pointy edge objects, flying / moving objects

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|--------------------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | Residual | | | |
| \square Y (COMPLETE) \rightarrow | ARE REQUIRED?* | Responsible F | PERSON * | DUE DATE | * |
| | | | | | |

Could injury occur through: Contact with hot or cold object, or friction burn: I.e. outside a range of 0-50 degrees Celsius. E.g. steam, naked flame, laser beams; ice, dry ice, frozen materials

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|---|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\Box \mathbf{Y} (\text{COMPLETE}) \rightarrow \rightarrow$ | ARE REQUIRED? * | Responsible I | PERSON * | DUE DATI | * |
| | | | | | |

Could injury occur through: Contact with vibration: E.g. holding onto a vibrating item for a period of time

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|--|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\Box \mathbf{Y}$ (complete) $\rightarrow \rightarrow \rightarrow \rightarrow$ | ARE REQUIRED? * | Responsible I | PERSON * | DUE DATI | = * |
| | | | | | |

Could injury occur through: Contact with live electricity or is there potential for electric shock

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| ARE REQUIRED? * | | RESPONSIBLE I | PERSON * | DUE DATE | * |
| | | | | | |

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Could injury occur through: Contact with chemicals, fumes or gas: E.g. dry ice, oils, diesel emissions, liquid N2, dust

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | Residual | | | |
| ARE REQUIRED? * | | Responsible F | PERSON * | DUE DATI | * |
| | | | | | |

Could injury occur through: Exposure to noise: I.e. exceed 8 hour noise equivalent 85dB(A) or peak noise 140dB(C)

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|--|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\Box \mathbf{Y}$ (complete) $\rightarrow \rightarrow \rightarrow \rightarrow$ | ARE REQUIRED? * | Responsible F | PERSON * | DUE DATI | = * |
| | | | | | |

Could injury occur due to: Inadequate emergency stop: I.e. unable to quickly shut down the plant in an emergency. E.g. mushroom stop button present and adequate, located within reach, operational etc.

| N (GO TO NEXT RECORD) | How could this | RISK * | LIKELIHOOD | CONSEQUENCE | RATING |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| ARE REQUIRED? * | | RESPONSIBLE I | PERSON * | DUE DATI | - * |
| | | | | | |

Could injury occur through: Slips, trips or falls: E.g. slippery, uneven or cluttered work surfaces, plant location, lack of guard rails

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | RATING |
|--|--------------------|---------------|------------|-------------|-----------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| HAZARDS P3, GO TO NEXT) $\Box \mathbf{v}$ (complete) | ARE REQUIRED? * | RESPONSIBLE I | PERSON * | DUE DATI | <u></u> * |
| | | | | | |

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Could injury occur through: Fall from heights: Can a person fall from a height greater than 2 metres?

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|--------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| ARE REQUIRED? * | | RESPONSIBLE | PERSON * | DUE DATE | * |
| | | | | | |

Can anyone be: Caught between or struck by moving objects: Other than parts of the plant. E.g. item falling from racking / forklift. Struck by or pinned against solid object by a car, tug, truck etc

| N (GO TO NEXT RECORD) | How could this | RISK * | LIKELIHOOD | CONSEQUENCE | RATING |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| ARE REQUIRED? * | | RESPONSIBLE I | PERSON * | DUE DAT | Ξ* |
| | | | | | |

Could injury occur through: Exposure to / work in confined spaces: As defined by AS2865.

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|--------------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| | ARE REQUIRED? * | RESPONSIBLE | PERSON * | DUE DATI | = * |
| | | | | | |

Could injury occur through: Exposure to ionising radiation: E.g. neutron probe, radionuclides

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | RATING |
|---|--------------------|--------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\square \mathbf{Y} (COMPLETE) \longrightarrow \longrightarrow \longrightarrow$ | ARE REQUIRED? * | RESPONSIBLE | PERSON * | DUE DAT | E * |
| | | | | | |

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Could injury occur through: Exposure to non-ionising radiation: E.g. RF Tx, UV transilluminator

| N (GO TO NEXT RECORD) | How could this | RISK * | LIKELIHOOD | CONSEQUENCE | Rating |
|-------------------------|--------------------|----------------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| HAZARDS P3, GO TO NEXT) | | TRESID ON LE | | | |
| □ Y (COMPLETE) → → → → | ANE NEQUINED: | RESPONSIBLE PERSON * | | DUE DATE * | |
| | | | | | |

Could injury occur through: exposure to biological hazards

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| | ARE REQUIRED? * | Responsible F | PERSON * | DUE DATE | * |
| | | | | | |

Could injury occur through: Exposure to hot, humid or cold environment: E.g. freezer, blast chillers, fridge

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | Residual | | | |
| ARE REQUIRED? * | | Responsible F | PERSON * | DUE DATE | * |
| | | | | | |

Could injury occur through: contact with insect / animal: E.g. sheep (weigh pens), snake, rat, tick, bee, wasp

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | RATING |
|------------------------|--------------------|--------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| | ARE REQUIRED? * | RESPONSIBLE | PERSON * | DUE DATI | E * |
| | | | | | |

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Could injury occur through: Exposure to pressure vessels: E.g. autoclave, boiler

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|--------------------------|--------------------|----------------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| HAZARDS P3, GO TO NEXT) | ARE REQUIRED? * | | | | |
| □ Y (COMPLETE) → → → → → | | RESPONSIBLE PERSON * | | DUE DATE * | |
| | | | | | |

Could injury occur through: Explosion / fire hazards: E.g. ignition of surrounds, naked flame, gas, grain silos

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| ARE REQUIRED? | | Responsible F | PERSON * | DUE DATE | * |
| | | | | | |

Could injury occur through: Exposure to / struck by lightning

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating |
|------------------------|--------------------|---------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | Residual | | | |
| ARE REQUIRED? * | | Responsible F | PERSON * | DUE DATE | * |
| | | | | | |

Could injury occur through: Overstress – manual handling and ergonomics: E.g. reaching, bending, twisting, lifting, pulling, pushing, repetitive motions; inadequate lighting, space, seating design?

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | RATING |
|---|--------------------|--------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| HAZARDS P3, GO TO NEXT) ARE REQUIRED? * | RESPONSIBLE | PERSON * | DUE DAT | E * | |
| | | | | | |

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Could injury occur through: Any other hazard: Anything else, including procedures for special conditions page 1

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | Rating | |
|------------------------|--------------------|------------------------|------------|-------------|-----------|--|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | | |
| | ARE REQUIRED? * | RESPONSIBLE PERSON * D | | DUE DAT | UE DATE * | |
| | | | | | | |

Could injury occur through: Any other hazard: Anything else, including procedures for special conditions page 1

| N (GO TO NEXT RECORD) | How could this | RISK * | Likelihood | CONSEQUENCE | RATING |
|---|--------------------|----------------------|------------|-------------|--------|
| Y, ALREADY CONTROLLED | CAUSE AN INCIDENT? | UNCONTROLLED | | | |
| (ADD TO PRE-CONTROLLED | WHAT CONTROLS | RESIDUAL | | | |
| $\square \mathbf{Y} (COMPLETE) \rightarrow \rightarrow \rightarrow \rightarrow$ | ARE REQUIRED? * | RESPONSIBLE PERSON * | | DUE DATE * | |
| | | | | | |

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Risk Assessment Action Flowchart

Follow this process to successfully complete the Risk Assessment process.

