

## Standard EN 16636 Nadzor nad škodljivci

### Veliki spomladanski živilski seminar

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GZS, Ljubljana, 22.4.2015

### ŽIVILO DANES JE „GLOBALNO“

#### Vroča čokolada z okusom kapučina



Bolj ozavestiti  
zaposlene in  
izboljšati  
njihovo  
vedenje /  
ravnanje  
pri delu z  
živili!



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## VARNA HRANA = VEDENJE

### Food Safety = Behavior

### Food Safety Culture

Zagotoviti višji nivo kulture pri  
zagotavljanju varnosti živil

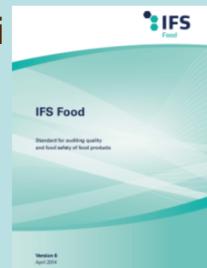
izobraževati zaposlene      in      preobraziti posameznike

(Vir, Vel Pillay, LRQA)



## Kaj je IFS

- IFS je standard, katerega lastniki so trgovci.
- Potreba po njem se je pokazala z proizvodnjo trgovskih blagovnih znamk
- Mednarodno priznan trgovski standard (GFSI)
- Ima 288 zahtev, ki morajo biti individualno obravnavane
- Je pogoj za poslovanje!!!
- Podjetje mora obvladovati tudi zunanje procese;





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### Zahteve standarda

<b>1.2.4 KO</b>  	<b>KO N°1:</b> The senior management shall ensure that employees are aware of their responsibilities related to food safety and quality and that mechanisms are in place to monitor the effectiveness of their operation. Such mechanisms shall be clearly identified and documented.					
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Vodstvo mora poskrbeti, da se delavci zavedajo svojih odgovornosti v povezavi z zagotavljanjem varnosti živil in kakovosti; Nad njihovim izvajanjem se mora vršiti učinkovit nadzor, ki mora biti jasno opredeljen in dokumentiran;

**V primeru, da v obratu vab / pasti ni, so pa v načrtu, je to deviacija (KO); Npr. Vabe / pasti niso bile pritrjene, so se poškodovale, zdrobile, zavrgle, delavci vzeli domov...**

## Zahteve standarda

1.2.10

The company shall have a system in place to ensure that it is kept informed of all relevant legislation on food safety and quality issues, scientific and technical developments and industry codes of practice.

Odgovorna oseba mora izkazati ustreza znanja glede DDD aktivnosti, ter tudi vir vseh potrebnih informacij, npr. sprememba biocidne uredbe na nivoju EU

Oseba v podjetju je odgovorna za aktivnosti, ki jih izvaja zunanj izvajalec ter tudi za sredstva, ki se nameščajo neposredno v obratu ali v okolico. Vedeti mora, katera sredstva uporablja zunanj izvajalec oziroma katere aktivne komponente - mora imeti seznam pesticidov, varnostne liste in tehnične specifikacije...



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## Zahteve standarda

2.2.1

### HACCP system

2.2.1.1

The basis of the company's food safety control system shall be a fully implemented, systematic and comprehensive HACCP system, based upon the Codex Alimentarius principles. It shall take into account any legal requirements of the production and destination countries which may go beyond such principles. The HACCP system shall be implemented at each production site.

2.2.1.2

The HACCP system shall cover all raw materials, products or product groups as well as every process from goods into dispatch, including product development and product packaging.

2.2.3.5.1

A hazard analysis shall be available for all physical, chemical and biological hazards, including allergens, which may reasonably be expected.

2.2.3.5.2

The hazard analysis shall consider the likely occurrence of hazards and severity of their adverse health effects.



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Vabe se lahko obravnavajo kot kemijsko tveganje, glodavci, insekti pa kot vektorji prenosa MB tveganj

Če je vaba v zaprtem prostoru? Načeta? Embalaža na dvorišču?

## Zahteve standarda

The company shall control purchasing processes to ensure that all externally sourced materials and services, which have an impact on food safety and quality, conform to requirements. Where a company chooses to outsource any process that may have an impact on food safety and quality, the company shall ensure control over such processes. Control of such outsourced processes shall be identified and documented within the food safety and quality management system.

There shall be a procedure for approval and monitoring of suppliers (internal and external), outsourced production or part of it.

The approval and monitoring procedure shall contain clear assessment criteria such as: audits, certificates of analysis, supplier reliability and complaints, as well as required performance standards.

The results of suppliers' assessments shall be reviewed regularly and this review shall be based on hazard analysis and assessment of associated risks. There shall be records of the reviews and of the actions taken as a consequence of assessment.

The purchased services shall be checked in accordance with the existing specifications. The schedule of these checks shall at least take into account the following items: service requirements, supplier status (according to its assessment) and impact of the service on the finished product.



Odgovorno je podjetje, katerega zunanjega partnerja si izbere za storitev!

**Če se podjetje zanaša izključno na zunanjega izvajalca in ni seznanjen z njegovimi aktivnostmi niti jih ne nadzira je lahko to deviacija;**

## Zahteve standarda

### Pest monitoring/Pest control

The company shall have a pest control system in place which is in compliance with local legal requirements, taking into account, as a minimum:

- the factory environment (potential pests)
- site plan with area for application (bait map)
- identification of the baits on site
- responsibilities, in-house/external
- used products/agents and their instructions for use and safety
- the frequency of inspections.

The pest control system shall be based on hazard analysis and assessment of associated risks.



Sistem nadzora nad glodavci mora temeljiti na analizi tveganja; Kateri so potencialni škodljivci, načrt vab / pasti v obratu kar vključuje tudi okolico, identifikacija postavljenih vab / pasti v realnosti , odgovornosti – interno / eksterno, frekvenco nadzora;

**Če v podjetju ne znajo argumentirati zakaj nekje postavijo past in nekje vabo je to deviacija; ali celo, če ničesar nimajo; Kako je z vabami v rinfuzi (vrečka)?**

The screenshot shows the RASFF - Food and Feed Safety Alerts page. At the top, there's a navigation bar with links for FOOD, ANIMALS, and PLANTS. Below the navigation, there's a main content area with a heading "RASFF - Food and Feed Safety Alerts". The content includes a brief introduction about the RASFF system and its role in ensuring food safety across the EU. It also features a sidebar with links for "RASFF Alerts", "RASFF Notices", and "RASFF Decisions".

The screenshot shows the RASFF Portal search interface. The search form includes fields for Reference (Subject), Numbered by, Type, Classification, Basis, Category, and Notifyee. There are dropdown menus for Week, Month, Year, and Action taken. Buttons for "Get results", "Clear form", "Load criteria", and "Save criteria" are at the bottom.

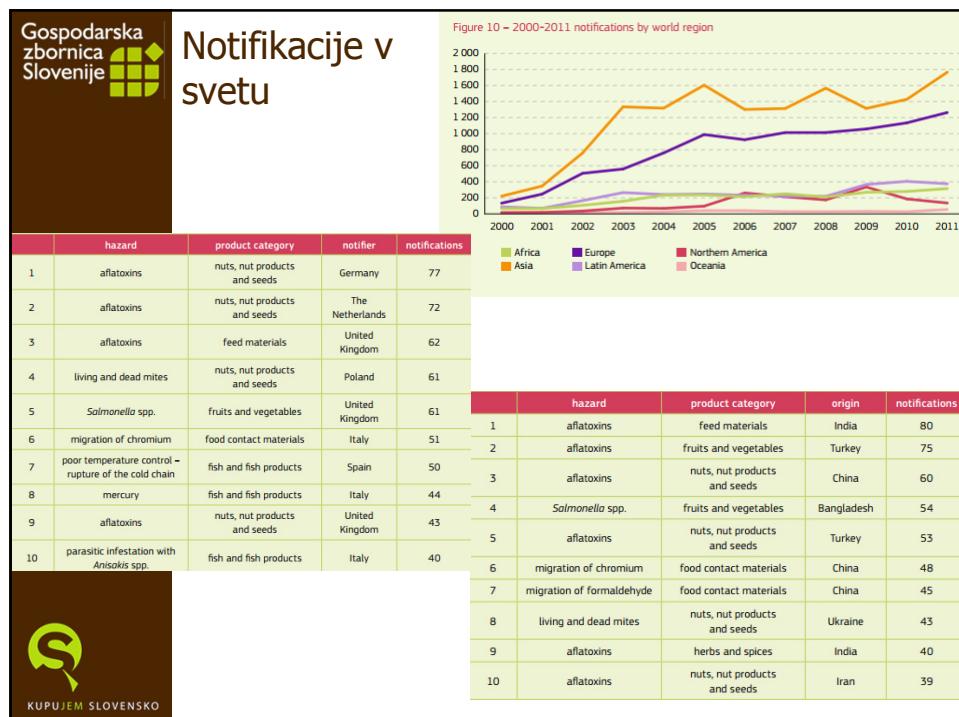
RASFF							
2.	border rejection	17/11/2014	17/11/2014	2014.BUL	Poland	food	nuts, nut products and seeds
							dead insects and excrements of insects in natural sesame seeds from India
4.	alert	31/10/2014	01/12/2014	2014.1472	Denmark	food	nuts, nut products and seeds
							rodents excrements in desiccated coconut from Indonesia, via Germany
6.	border rejection	18/09/2014	18/09/2014	2014.BMN	Slovakia	food	nuts, nut products and seeds
							peanuts from China infested with insects
7.	border rejection	09/09/2014	09/09/2014	2014.BLG	Greece	food	nuts, nut products and seeds
							live insects in almond kernels from the United States
8.	information for follow-up	19/05/2014	23/05/2014	2014.0687	Slovakia	food	nuts, nut products and seeds
							dead insects in and poor hygienic state of almonds from Poland infested with moulds

**RASFF**




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19.	border rejection	17/05/2013	28/05/2013	2013.AZB	Poland	food	nuts, nut products and seeds
24.	border rejection	20/11/2012	28/11/2012	2012.CIC	Poland	food	nuts, nut products and seeds
154.	border rejection	06/09/2011	07/09/2011	2011.BUH	Poland	food	rapeseeds from Ukraine infested with mites (live)
203.	border rejection	29/01/2010	29/01/2010	2010.ADU	Greece	food	nuts, nut products and seeds
289.	information	05/04/2000		2000.CY	Netherlands	Food	rodent excrements in and improper storage of anise and malhep seeds from Turkey
							infestation with insects of Peanuts



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**Pest control procedures in the food industry**

**Pest Management in Food Processing Facilities: A Resource Guide**

**Guideline on Best Practice in the Use of Rodenticide Baits as Biocides in the European Union**

**Cleaning, Sanitizing & Pest Control in Food Processing, Storage and Service Areas**

**BACKGROUND // MARCH 2016**

**Authorisation of Anticoagulant Rodenticides in Germany**

**Risk Mitigation Measures, Best Practice Code and FAQs**

**ENVIRONMENTAL RISK MITIGATION MEASURES FOR SECOND GENERATION ANTOCOAGULANT RODENTICIDES PROPOSED BY THE UK**

**HSE**

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## Načela preventivnega pristopa

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**HACCP**

- Analiza tveganja
- Določitev kritičnih kontrolnih točk
- Določitev kritične mejne vrednosti
- Določitev monitoringa
- Določitev korekcijskih postopkov
- Dokumentacija
- Verifikacija

**IPM**

- Pregledi glede infestacije
- Preventivni ukrepi
- Identifikacija
- Analiza
- Izbor sredstev (tretiranje)
- Monitoring
- Dokumentacija



## 1. Pregledi na prisotnost

- V živilskih obratih najmanj tedenski, če ne še bolj pogosti.
- Fokusiran na področja, kjer se bodo škodljivci najverjetneje pojavili (razkladalne rampe, vhodi surovin, skladišča, prostori za osebje, mesta, kjer so se surovine pred kratkim razsule oziroma bile skladiščene v razsutem stanju)
- Prepoznane morebitne vstopne točke za škodljivce (vrata, stare cevi, špranje /rapoake...)
- Hrana in vodni viri
- Žarišča (npr. samo en predel mesta...)
- Pritožbe na prisotnost škodljivcev ali napravljene škode



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## 2. Preventivni ukrepi

- Analiza vzroka
- Preventivno onemogočanje dostopa v objekt (vsi vhodi, odprtine) in do vodnih virov
- Pozornost na: previsne veje, kable, ventilatorje, zračne opeke z luknjicami, razbite šipe, žlebovi in pod strehe, okna, ...
- Zmanjševanje zavržkov hrane
- Ustrezno shranjevanje odpadkov v zaprtem čistem prostoru.



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### 3. Identifikacija

- Prepoznati škodljivce in razumeti njihovo reprodukcijo
- Zagotovi, da ima tvoj DDD izvajalec dokazila o usposabljanju s področja identifikacije in obnašanja škodljivcev



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### 4. Analiza

- Ko identificiraš škodljivca moraš ugotoviti zakaj je v tvojem obratu?
  - Ali jih morda privlači dostopna hrana, odpadki, akumulirana vlaga?
  - Kako je z vonjavami?
  - Po kateri poti so škodljivci vdrlji v objekt (skozi tla, stene...)?
  - Ali so lahko vstopne pošiljke infestirane? (npr. z insekti)?
- Šele na osnovi teh odgovorov se lahko odločiš za najboljšo tehnično rešitev!



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## 5. Izbor sredstev (tretiranje)

- Na prvem mestu naj bodo ne-kemične metode kot npr. preprečiti dostop ali postaviti pasti
  - Šele ko to ni učinkovito se smejo uporabiti vabe (kemikalije), v najmanj hlapni obliki, na ciljnih mestih za ciljne škodljivce; Pozor na prah, mila ki se prime kože glodavcev in ga ta poliže???
- ( PRAVO SREDSTVO; NA PRAVEM MESU IN V PRAVIH KOLIČINAH)**
- Pri tem pa upoštevaj tveganje za varnost živil, ne-ciljane organizme in za okolje.
  - Posebna pozornost koncentracije raztopin!!!
  - Rezistenci na antikoagulantri! (Dokazila za Belgijo, Dansko, Francijo, Nemčijo, Nizozemsко, Madžarsko in ZK)
  - Nova biocidna Direktiva 98/8/EC
  - Odlaganje kadavrov, in sredstev s pretečenim rokom!!!



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## Direktiva 98/8/EC

Which are the anticoagulants currently used in rodenticides?

Table 1. Anticoagulants approved as biocidal active substances

### First-generation anticoagulant rodenticides (FGARs)

Chlorophacinone

Coumatetralyl

Warfarin

### Second-generation anticoagulant rodenticides (SGARs)

Brodifacoum

Bromadiolone

Difenacoum

Difethialone

Flocoumafen

- Prve generacije so manj toksični in jih mora žival večkrat zaužiti
- Druge generacije so bolj toksični in je dovolj enkratno hranjenje
- Zaradi visokega tveganja do ostalih organizmov in okolja ne FGAR in ne SGAR ne bodo zajeti v Aneksu I direktive 98/8/EC – do sedaj nimajo alternative
- Zaenkrat se lahko uporablajo za obdobje 5 let, nato sledi ponovna obravnavna



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## 6. Monitoring

- Nadzor nad škodljivci mora biti kontinuiren, kar pomeni stalen monitoring obrata na morebitno infestacijo škodljivcev
- Ker običajno zunanji strokovni DDD izvajalec pride v obrat na 14 dni ali vsak teden, mora osebje v obratu dnevno biti „oči in ušesa“ IPM programa.
- Zaposleni se morajo zavedati vseh sanitarnih pravil, ki se navezujejo na IPM program in morajo poročati o vsakem indicu, ki nakazuje prisotnost škodljivcev.
- V principu je cilj „ne imeti“ škodljivca v obratu!
- Če je škodljivec prisoten je že alarm!

## 7. Dokumentacija

- Dokumentacija o ravnanju s škodljivci nakazuje resen pristop podjetja do teh aktivnosti.
- Obsega vsaj: obseg storitev – pogodba za zunanjega izvajalca, obseg storitev interno, poročila o potencialnih škodljivcih (pregled na prisotnost škodljivcev), poročila opravljenih storitev, plan korektivnih ukrepov z izvedbo in kontrolo izvedbe, načrt pasti / vab, seznam odobrenih pesticidov, poročila o uporabljenih pesticidih, lizenca izvajalca...

## Analiza trendov

- Za analizo se uporabijo vsi zapisi o rednem monitoringu – dogajanje na vabah, pasteh, feromonskih vabah...
- S podatki analize se lahko prilagajajo pristopi nadzora nad škodljivci, in predvidevajo se močnejši vdori škodljivcev vezano npr. na sezono ali npr. na slabo samokontrolo pri zapiranju objekta;



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## EN 16636 – Pest management Service

- EN 16636 je Evropski standard za podjetja, ki upravljajo nadzor nad škodljivci. Razvit je bil z namenom dvigniti na višjo strokovno raven celoten sektor, ki se ukvarja z nadzorom nad škodljivci, za zaščito njihovih strank, javnega zdravja in okolja.
- Zagotavljanje skladnosti s standardom EN 16636 bo omogočal izvajalcem nadzora nad škodljivci:
  - Dokaz visoke usposobljenosti pri ravnaju s škodljivci
  - Zagotovitev konsistentne kakovosti storitev
  - Minimalno tveganje za stranke in javnost
  - Minimalne potencialne negativne učinke na okolje in varstvo živali
- Standard je namenjen vsem izvajalcem nadzora nad glodavci, vključno z oceno tveganja, preventivo, svetovanjem in izvedbo relevantnih postopkov. Ne vključuje pa zaščite in varstva rastlin, rutinskega čiščenja in dezinfekcije.
- Lastnik standarda je CEPA - Evropsko združenje izvajalcev nadzora nad škodljivci, izvedba pa s strani tretje stranke.



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## EN 16636

Definira in opisuje profesionalni pristop pri izvedbi aktivnosti nadzora nad škodljivci

Definira kompetence izvajalcev (key personnel)

Je dosegljiv vsem.

CEPA se je odločila, da bo certifikacijski postopek opravljen s strani tretje stranke:

- za ohranitev ugleda certifikacijskega postopka
- za zagotavljanje maksimalne integritete (celovitosti)
- za zagotavljanje pravilne izvedbe

Na koncu stranka pridobi certifikat (CEPA Certified® and the CEPA Certified® Protocol)



Roland Higgins



Certified Professional Pest Management

## CEPA Certified® The Protocol

Protocol definira potek certifikacijskega postopka

- Scope (obseg)
- Validity (veljavnost)
- Carrying out audits (izvedba presoje)
- Raising and grading non-conformities (neskladnosti)
- Dealing with non-conformities (obravnavanje neskladnosti)



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Certified Professional Pest Management



## CEPA Certified® The Protocol

### Scope (obseg)

- Within national boundaries (znotraj nacionalnih meja)
- Range of activities as defined in The Standard (le aktivnosti, ki so opredeljene v standardu)
- Does not apply to any other services provided by the Service Provider (uporablja le za izvajalca storitev in ne za izvajane storitve)
- Does not apply to persons, only organisations (uporablja se za presojanje organizacije)
- Can be single site or multi-site



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## CEPA Certified® The Protocol

### Validity (Veljavnost)

- Certificate valid for 3 years from date of Audit
- One full day audit at the start of the 3 year period with a check-up at the half way point (en dan presoje na tri leta z vmesno kontrolo)



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## CEPA Certified® The Protocol

### Carrying out audits (Potek presoje)

As defined by EN16636 each audit will look at:

Infestation assessment and monitoring (ocena infestacije in monitoring)  
Root cause analysis (analiza vzroka)  
Risk assessment (analiza tveganja)  
Definition of fields of application (opredelitev področja uporabe)  
Pest management plan definition (opredelitev plana dela)  
Client proposal (predlog za stranko)  
Service delivery (stорите)  
Report and recommendations (poročila in priporočila)  
Confirm service effectiveness (potrjevanje učinkovitosti storitev)  
Disposal of waste (odlaganje odpada)  
Competence (kompetence)  
Management of equipment (upravljanje / ravnanje z opremo)  
Supply and use of pesticides (zaloga in uporaba pesticidov)  
Documentation and recording (dokumentacija in zapis)



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## CEPA Certified® The Protocol

### Carrying out audits

- Auditor must observe pest management operation (field visit) (presojevalec bo presojal izvajanje na terenu)
- Auditor will look for evidence of compliance with the standard (written procedures, records, questioning, observation) (presojevalec bo iskal dokazila o skladnosti s standardom – delovna navodila, zapise, razgovor, opazovanja)
- Will need to interview at least one Professional User (profesionalnega uporabnika)



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## CEPA Certified® The Protocol

### Raising and grading non-conformities

- Three classes of non-conformity (Critical, Major, Minor)  
*Trije razredi neskladnosti*
- Class does not relate to how difficult it is to correct
  - Critical - safety, legal, environmental harm (*varnost, zakonitost, varstvo okolja*)
  - Major - Clause not met and is affecting services (*zahteva ni izpolnjena in to vpliva na storitev*)
  - Minor – Clause not met but not affecting services (*zahteva ni izpolnjena in to ne vpliva na storitev*)
  - Observations/improvement proposals (*predlogi za izboljšanje*)



## CEPA Certified® The Protocol

### Dealing with non-conformities

- All n/c to be corrected before certificate can be issued as the Certificate needs to state that the Service Provider meets the Standard (*vse neskladnosti morajo biti popravljene pred izdajo certifikata*)
- At audit must correct Critical and Major (*na presoji morajo biti critical in major neskladnosti že popravljene*)
- More time to correct Minor but need to produce evidence at next audit (*več časa za minor, dokazila za odpravo se pregledajo pri naslednji presoji*)
- For Re-certification (after three years) all non-conformities need to be corrected (*ob ponovnem certificiranju morajo biti odpravljene vse neskladnosti*)





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## CEPA Certified®

### The Protocol

Multi-site operations – Which sites to audit?

The Service Provider can decide whether:

1. each site is to be regarded as a separate operation, having certification that applies only to that site; or (*vsak obrat se presoja posebej in ima svoj certifikat*)
2. all sites are to be covered by one certification; or (*vsi obrati se presojajo pod enim certifikatom*)
3. a combination of these (*kombinacija*)
4. In the case of Options 2 and 3, in which a certificate applies to more than one site, one of the sites covered by the certificate shall be designated by the Service Provider as the Central Office at which all relevant records can be accessed; (*če je več obratov mora eden biti opredeljen kot glavna pisarna*)



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### The Protocol

Multi-site operations - Sampling Method (*metoda vzorčenja*)

- It is not necessary to audit every site before certifying a Service Provider or at surveillance or re-certification (*ni potrebno presojati vseh obratov*)
- The sample selection process shall ensure that each round of audits includes all of the types of pest management service within the scope of the Standard which are offered by the Service Provider. (*v presojo naj bi bili zajeti vsi tipi storitev*)
- The minimum number of sites to be visited per audit shall be as follows: the square root of the number of sites, rounded to the upper whole number ( $y=\sqrt{x}$ ) (*presojal naj bi se kvadratni koren vseh obratov*)





## CEPA Certified®

### The Protocol

Further chapters of Protocol cover

- Rules for Withdrawal, Surrender, Suspension  
(*protokol navaja tudi pravila za odvzem certifikata*)
- Appeals (*Pritožbe*)
- Approving and monitoring Certification Bodies  
(*odobritev in monitoring certifikacijskih hiš*)
- Auditor competence (*kompetence presojevalcev*)
- Report format (*oblika poročila*)
- Governance (CEPA Steering Committee)  
*Upravljanje*



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## CEPA Certified®

### Marketing Strategy

#### Objective

- Create the conditions to guarantee that as many PCO businesses in Europe as possible successfully apply for CEPA Certified® certification (Recommendations and Requirements for the Provision for Pest Management Services - EN16636) (*interes je pridobiti čim več izvajalcev DDD za certificiranje*)

#### Strategy

- Identify and communicate directly with each individual target group, upstream from the end user and downstream from CEPA (*CEPA bo predstavila standard posamezno po združenjih*)



## CEPA Certified® Marketing Strategy

### Tactical messages

- To Operators: How to get certified ([kako se certificirati](#))
- To Associations: How to get your members to become certified ([kako pritegniti člane k certificiranju](#))
- To Certification bodies: How to apply for CEPA Certified® endorsement ([pogoji za izvajanje certificiranja](#))
- To End Users: How to make sure that your Pest Management provider is CEPA Certified® ([kako zagotoviti, da je tvoj izvajalec certificiran](#))



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Brussels Stakeholder meeting on 17 March 2015

New website with dedicated CEPA Certified® section to be fully operational as of Easter 2015

Please visit us there and then for more information

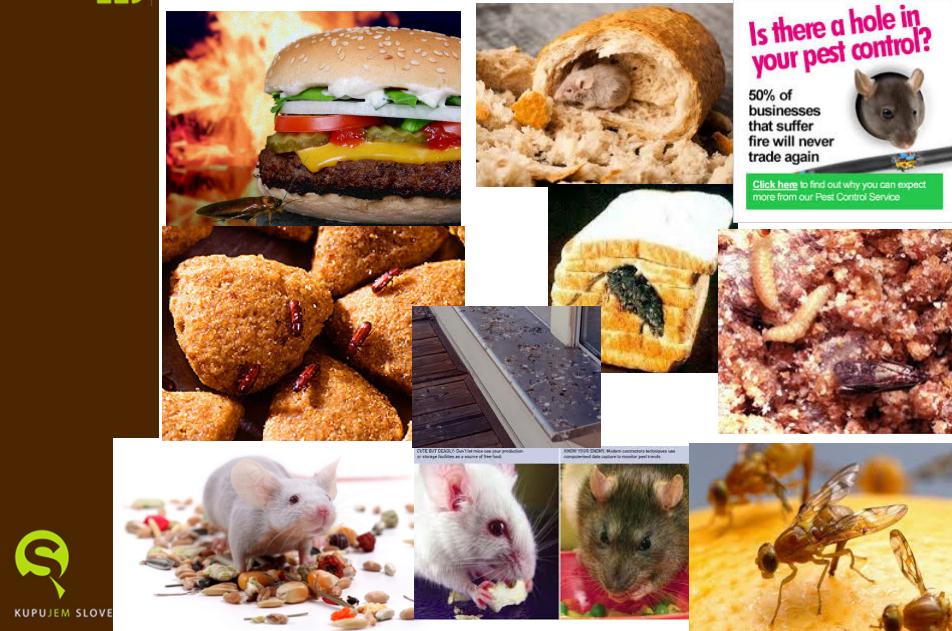
[www.cepa-europe.org](http://www.cepa-europe.org)



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## Škodljivci, vektorji prenosa



Is there a hole in  
your pest control?

50% of  
businesses  
that suffer  
fire will never  
trade again

[Click here to find out why you can expect  
more from our Pest Control Service](#)

## Sredstva za nadzor nad škodljivci / glodavci



## Ponaredki



**FAKE**



MISUSE OF RODENTICIDE	CONSEQUENCES
Use of acute poisons (e.g. zinc phosphide) in stores of foodstuffs	Risk of poisoning consumers
Unprotected poisoned baits	Risk to : domestic animals, children old people,
No record of quantity and position of bait	Risk of forgetting poisoned bait placed among the goods which could result in consumers being poisoned
Bait made with poor quality products	Treatment ineffective
Products poorly stored	Products poorly stored



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